

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18229 - L2 Version 1
Chandra X-Ray Center

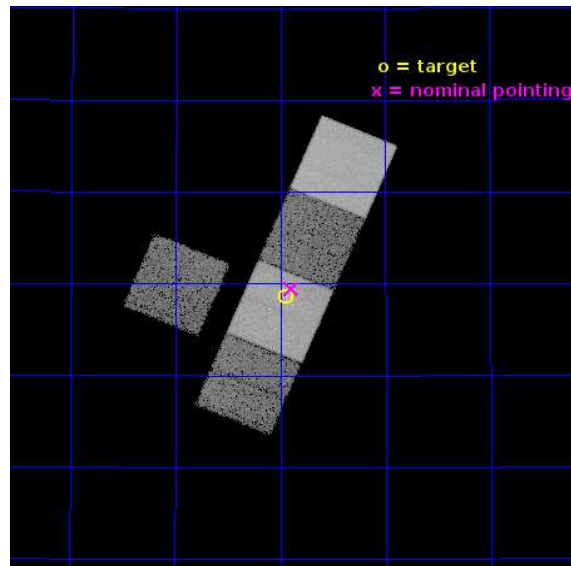
L2 Processing Date : Dec 28 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

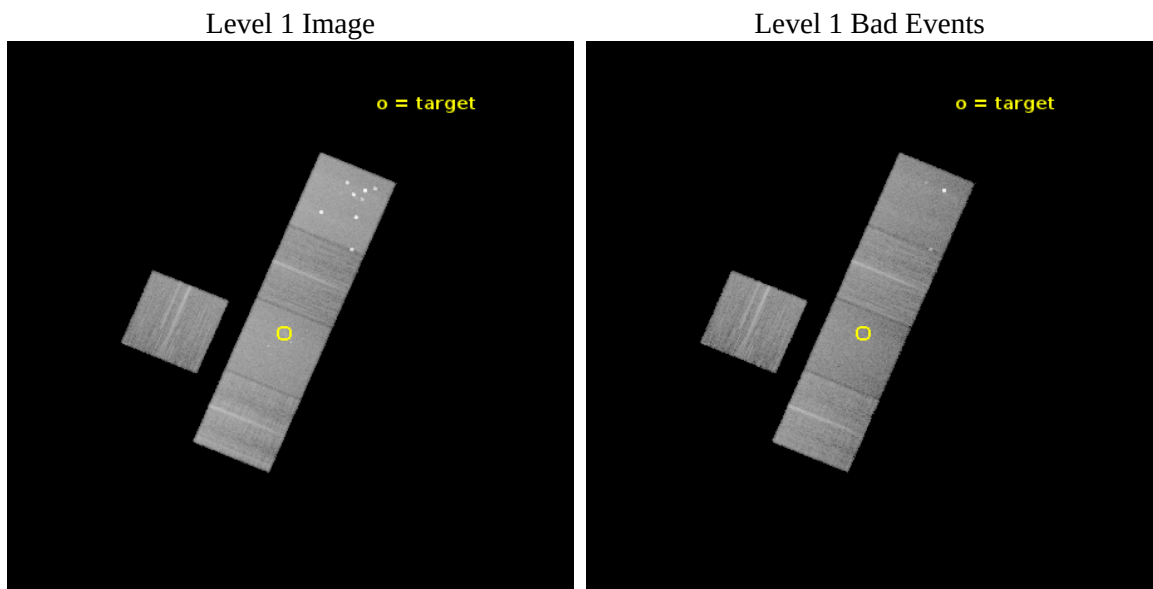
seq_num	801557	Sequence number
obs_id	18229	Observation id
title	Fossil group: the real spherical cow to study AGN feedback	Proposa
observer	Dr Ka-Wah Wong	Principal investigator
object	J0844	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.235833	Observer's specified target RA [deg]
dec_targ	42.976583	Observer's specified target Dec [deg]
ra_nom	131.22394302007	Nominal RA [deg]
dec_nom	42.991157166217	Nominal Dec [deg]
roll_nom	112.88589426723	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22056.500169754	Sum of GTIs [s]
livetime	21768.315757277	Livetime [s]
ontime3	22053.359109521	Sum of GTIs [s]
ontime5	22056.500169754	Sum of GTIs [s]
ontime6	22056.500169754	Sum of GTIs [s]
ontime7	22056.500169754	Sum of GTIs [s]
ontime8	22056.459887743	Sum of GTIs [s]
l2events	211622	Number of level 2 events



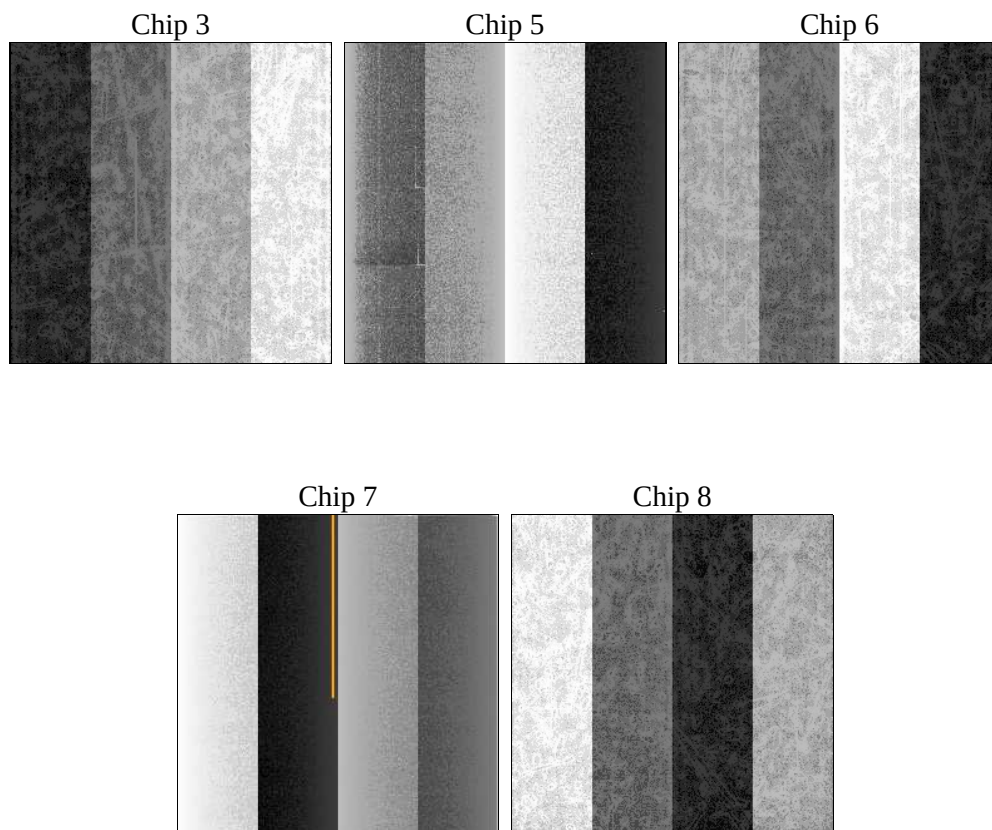
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	22056.500169754	Sum of GTIs [s]
caldsver	4.7.0	 	ontime3	22053.359109521	Sum of GTIs [s]
date	2015-12-28T14:19:29	Date and time of file creation	ontime5	22056.500169754	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	22056.500169754	Sum of GTIs [s]
			ontime7	22056.500169754	Sum of GTIs [s]
			ontime8	22056.459887743	Sum of GTIs [s]
			l1events	863126	Number of level 1 events

2.1.4 Events

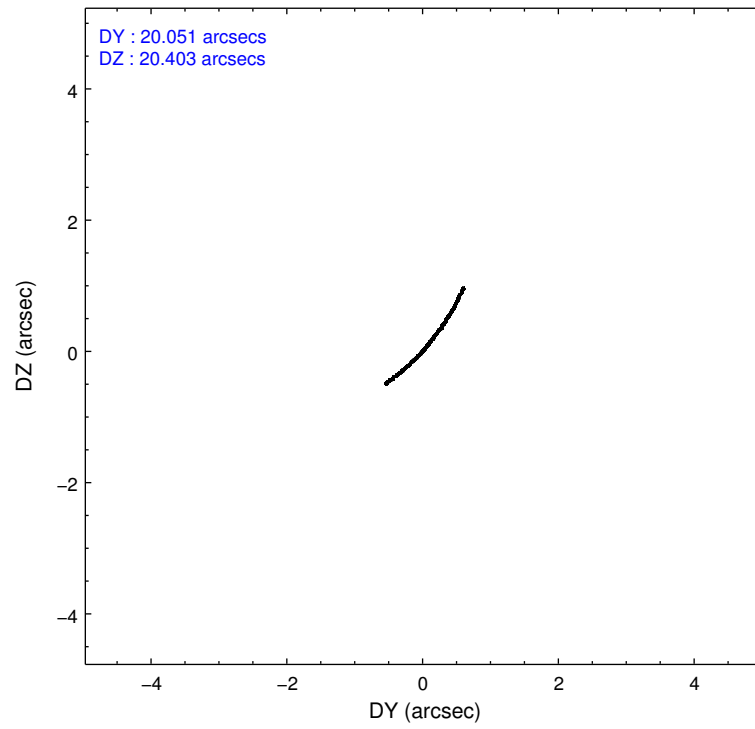
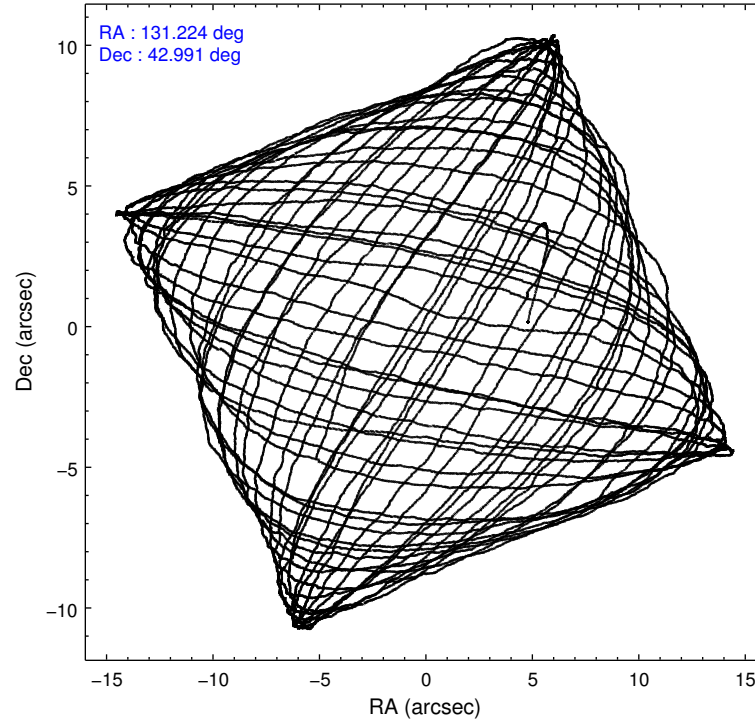
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	128580	245685	136846	176429	175586
rejected events	115033	117634	121493	98745	129562
rejected %	89%	47%	88%	55%	73%

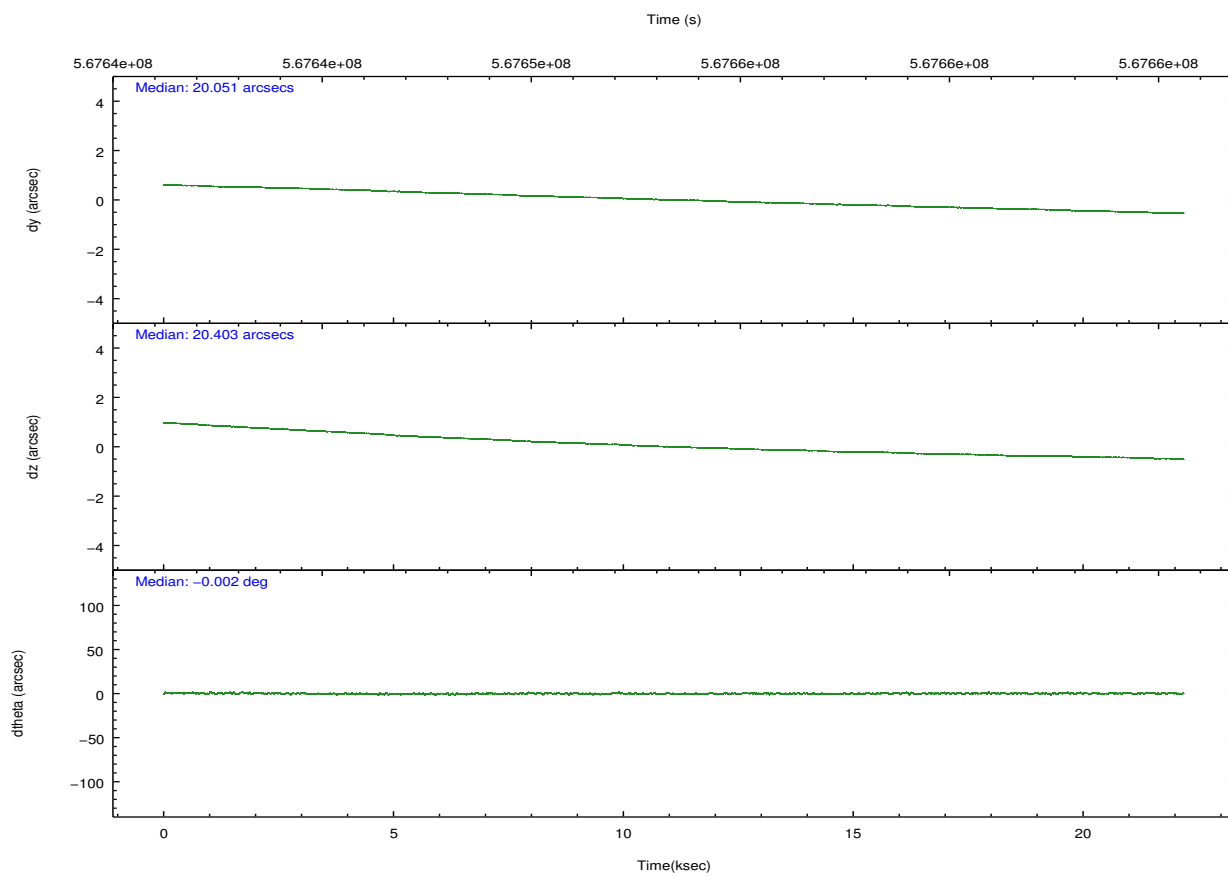
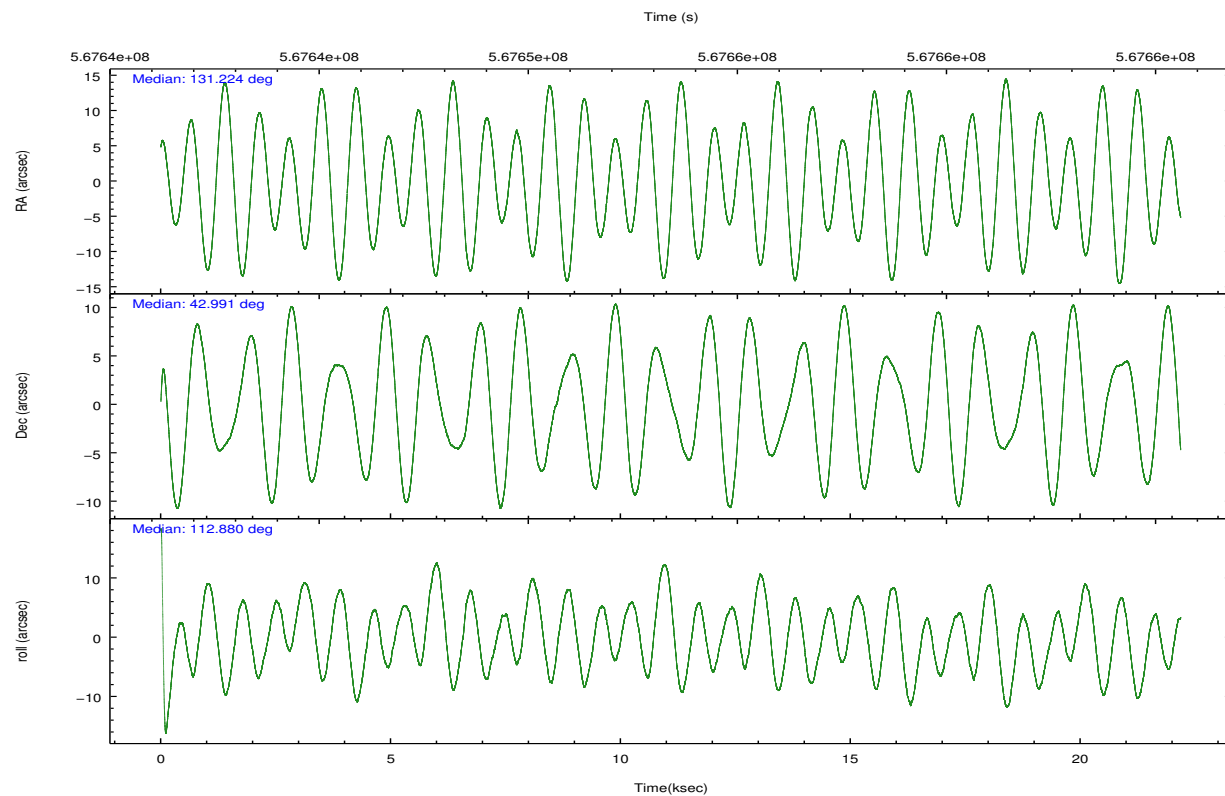
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4650	28559	5125	7172	12757
	3%	11%	3%	4%	7%
grade 1 events	82	507	66	208	146
	0%	0%	0%	0%	0%
grade 2 events	2888	35010	3532	16535	11240
	2%	14%	2%	9%	6%
grade 3 events	1443	4050	1575	6366	4841
	1%	1%	1%	3%	2%
grade 4 events	1523	3870	1482	6364	4589
	1%	1%	1%	3%	2%
grade 5 events	6511	15333	6375	17454	9452
	5%	6%	4%	9%	5%
grade 6 events	3048	56598	3641	41261	12605
	2%	23%	2%	23%	7%
grade 7 events	108435	101758	115050	81069	119956
	84%	41%	84%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	131.254157	131.2239430200718	CCD I2 on	N	N
[deg] Pointing Dec	42.974874	42.99115716621664	CCD I3 on	O1	Y
[deg] Pointing Roll	112.708648	112.8858942672299	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	567642492.184000	567641236.29485	CCD S5 on	N	N
Observation start date	2015-12-27T22:27:04	2015-12-27T22:07:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	567664492.184000	567665451.40873	On-chip summing requested	N	N
Observation end date	2015-12-28T04:33:44	2015-12-28T04:50:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



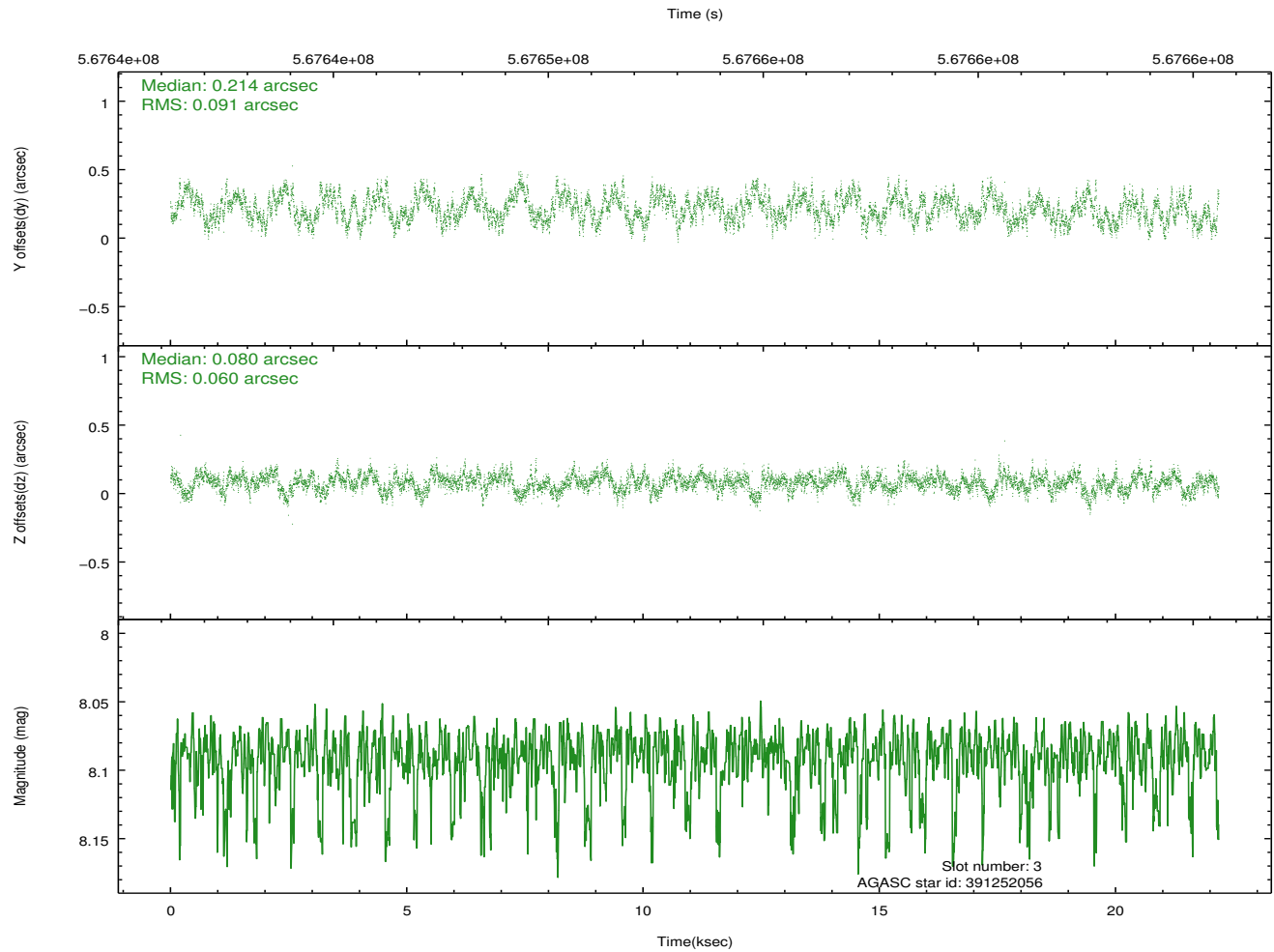
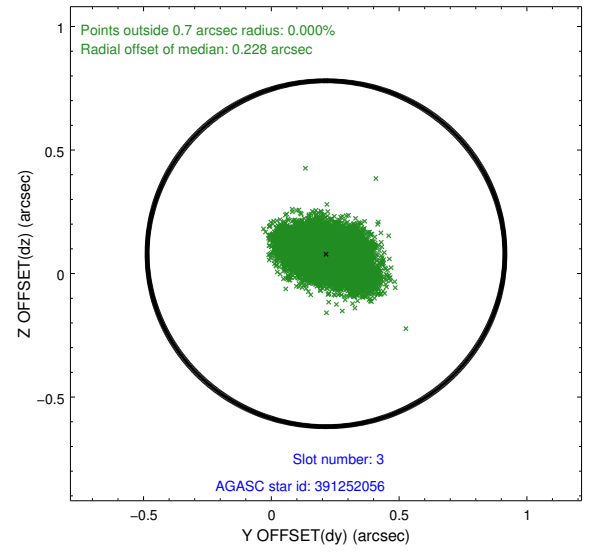
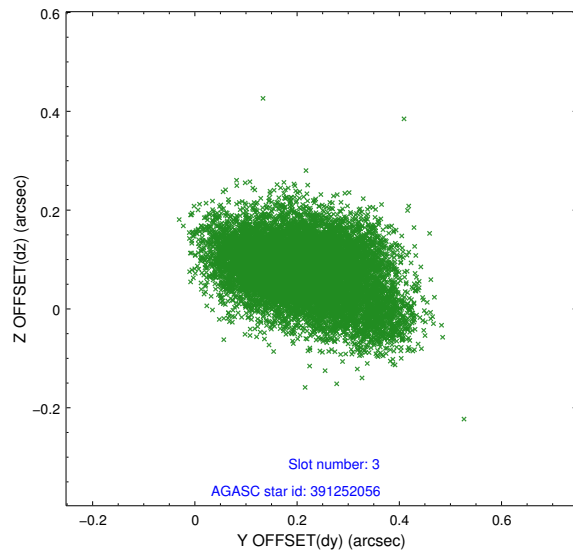


Slot Statistics

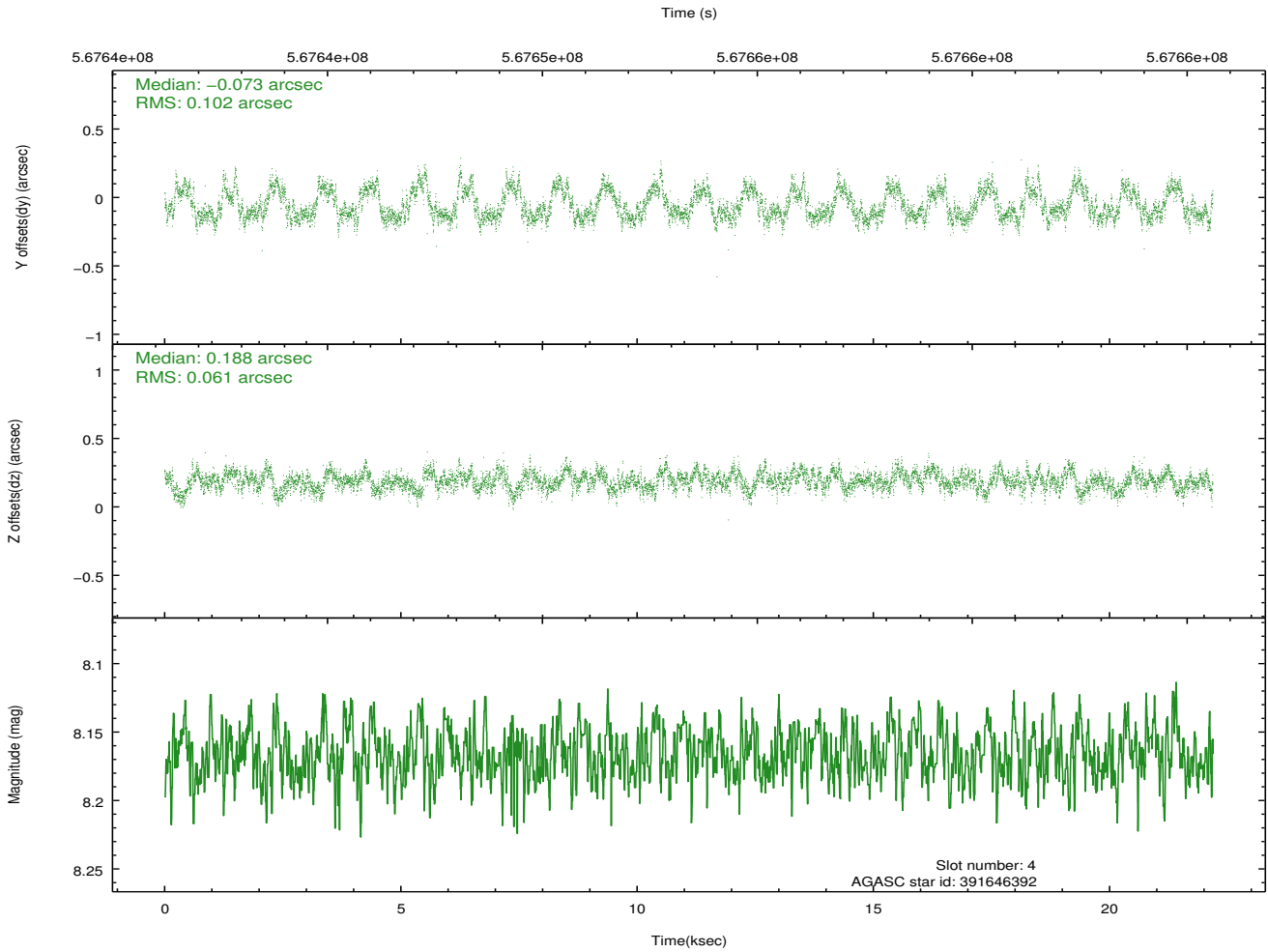
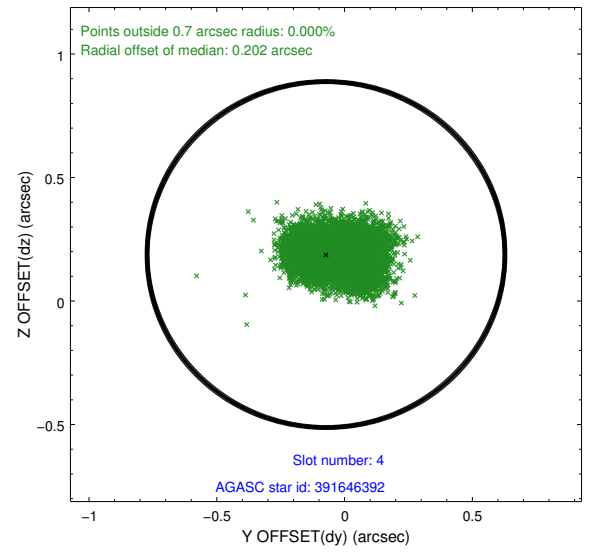
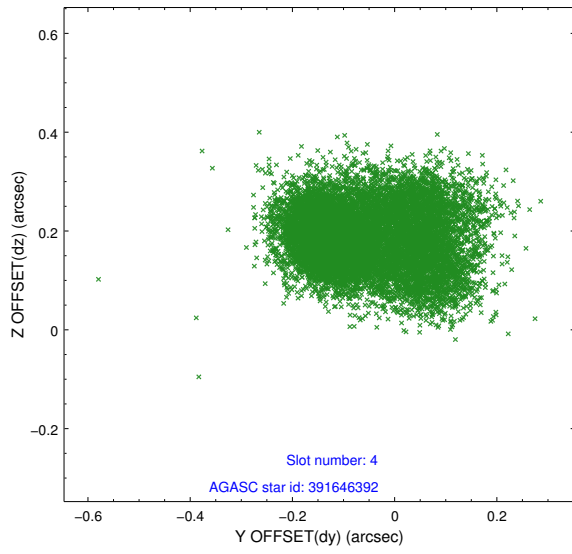
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	5409	-0.049	-0.094	0.009	0.014	0.000000	0.000000	-773.30	-1742.08
1	FID		ACIS-S-5	7.24	5411	-0.172	-0.039	0.014	0.021	0.000000	0.000000	-1826.53	159.83
2	FID		ACIS-S-6	7.36	5411	0.198	0.141	0.010	0.019	0.000000	0.000000	388.49	804.00
3	GUIDE	used	391252056	8.09	10820	0.214	0.080	0.116	0.189	131.339201	42.403841	-1984.29	585.17
4	GUIDE	used	391646392	8.17	10817	-0.073	0.188	0.126	0.210	131.450608	43.635953	1998.36	-1390.31
5	GUIDE	used	391649672	8.03	10818	-0.011	-0.072	0.103	0.189	130.914801	42.681721	-625.13	1235.87
6	GUIDE	used	391650624	7.45	10822	0.028	0.174	0.107	0.171	131.295815	43.649154	2197.10	-1036.07
7	GUIDE	used	391651336	9.04	10809	-0.167	-0.367	0.156	0.244	130.089733	43.336235	2396.64	2302.15

2.4 Star Slots

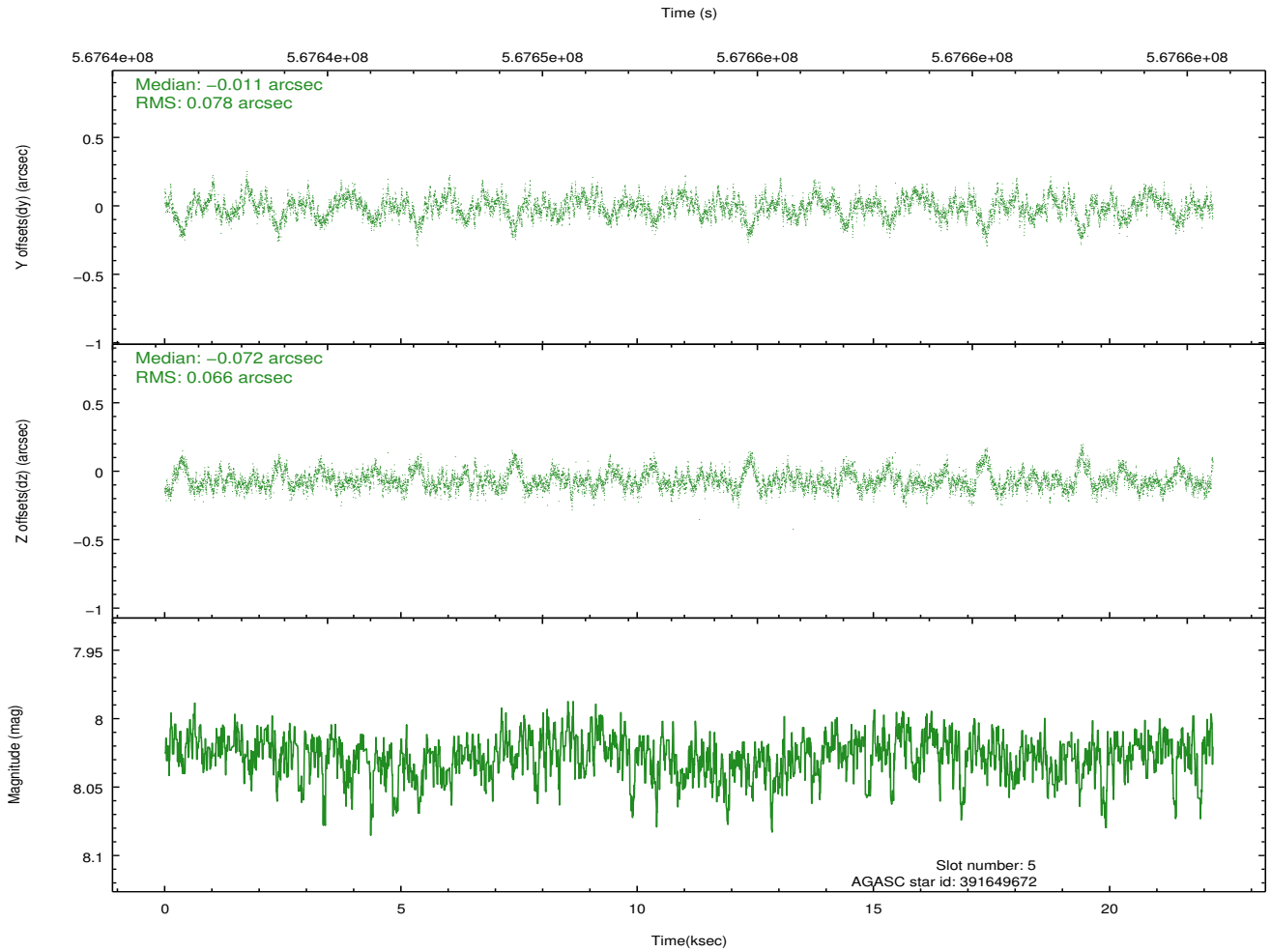
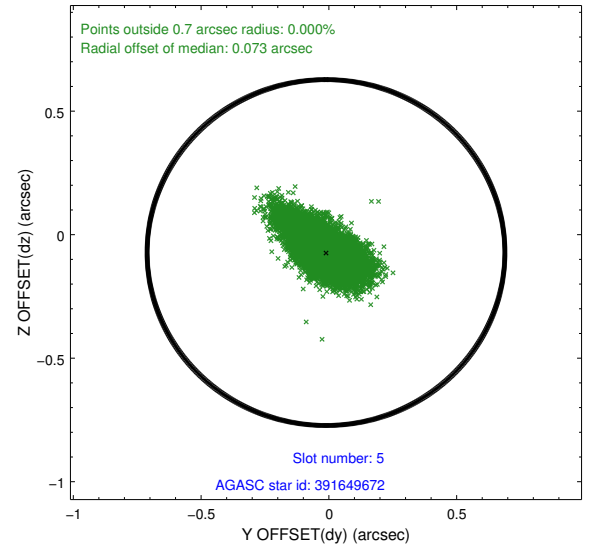
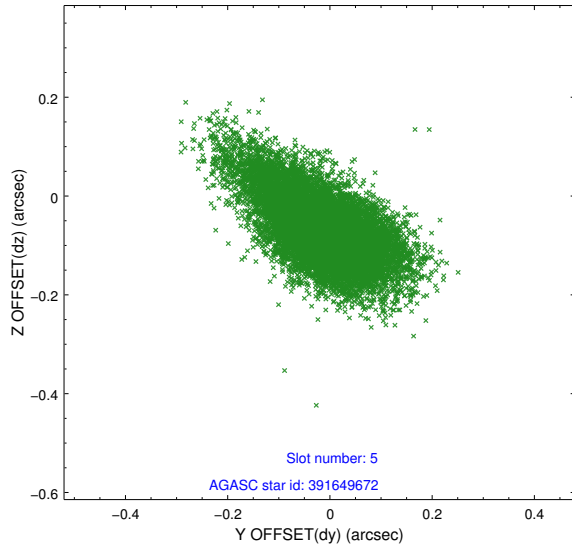
2.4.1 Slot 3



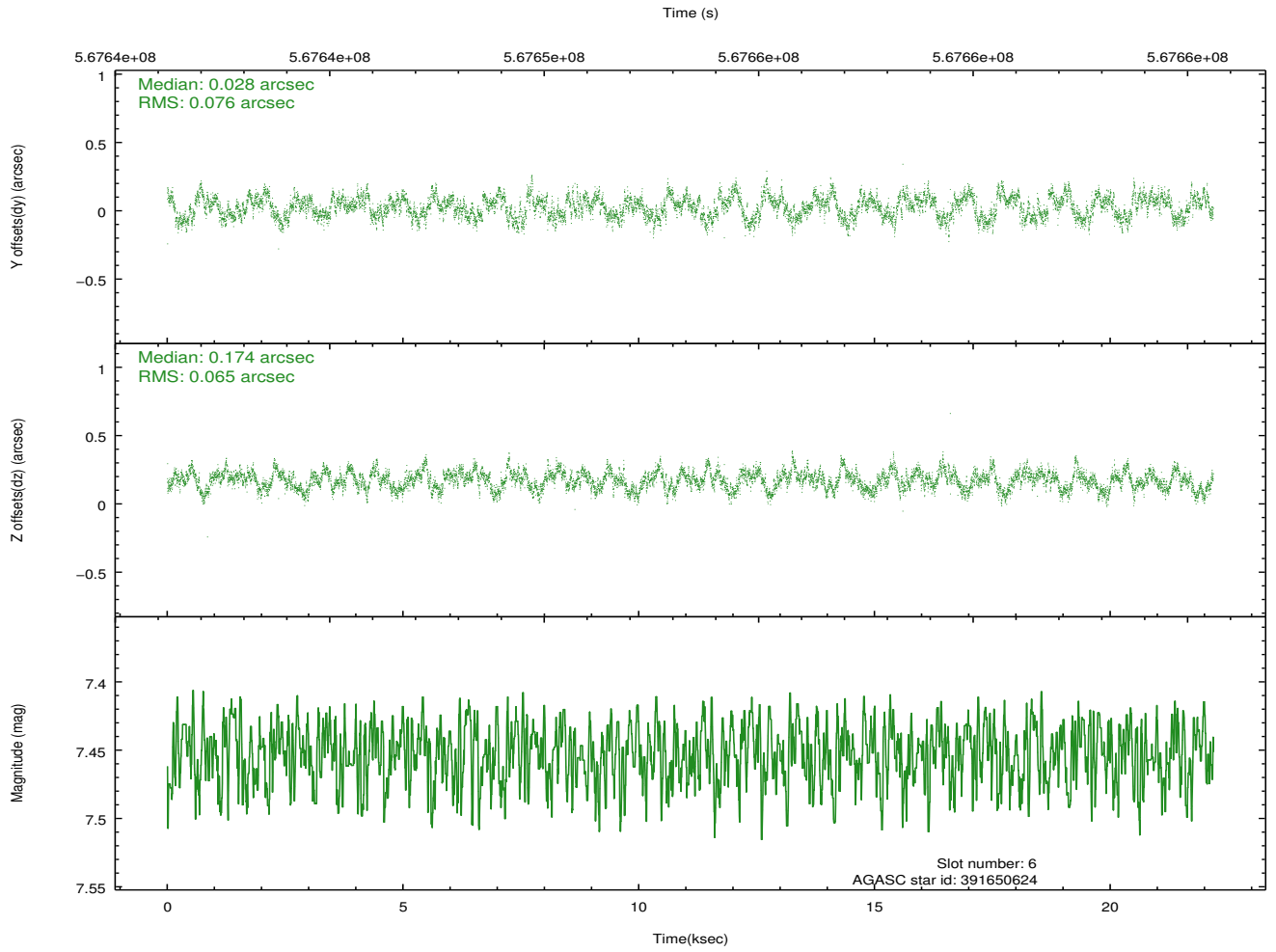
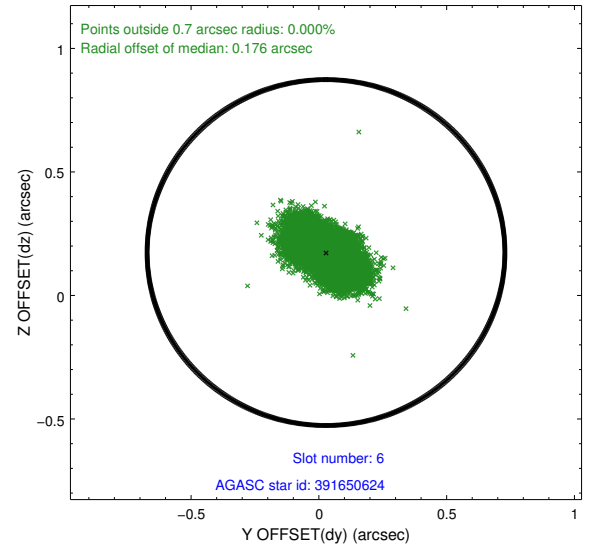
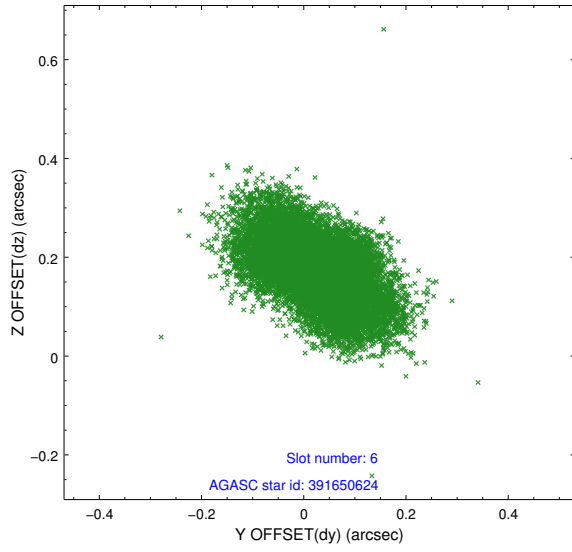
2.4.2 Slot 4



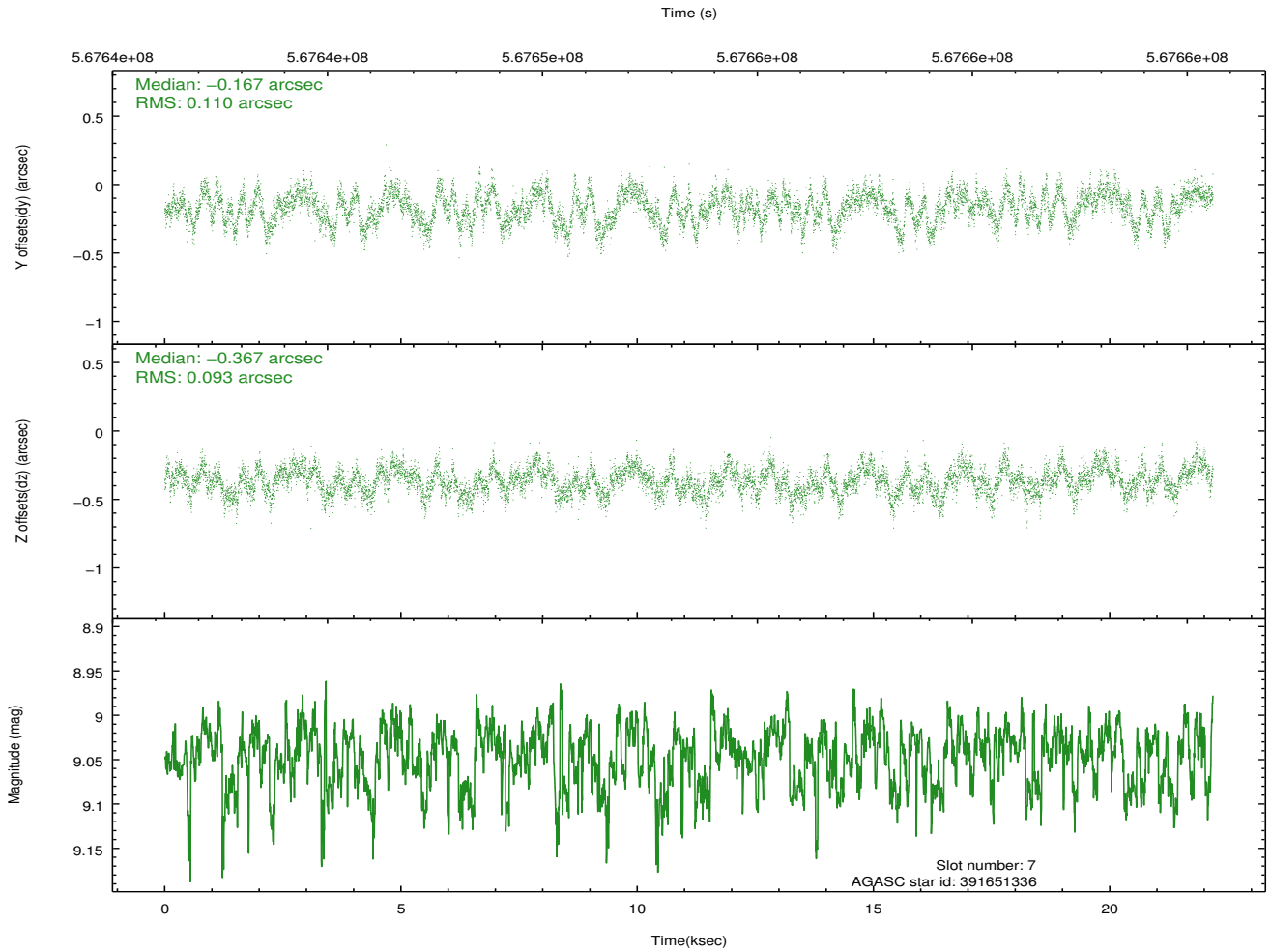
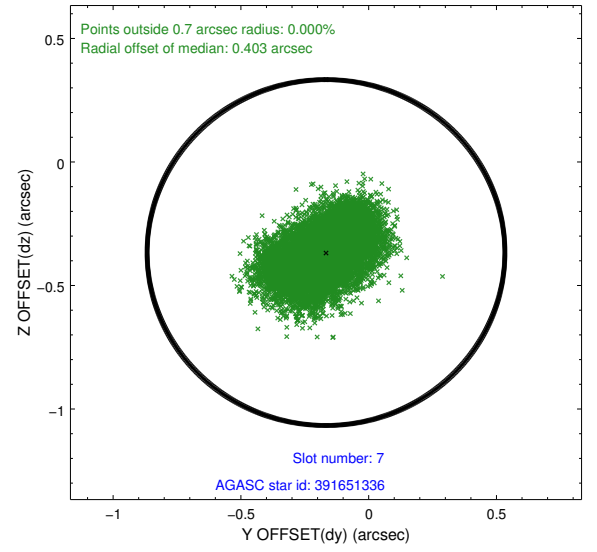
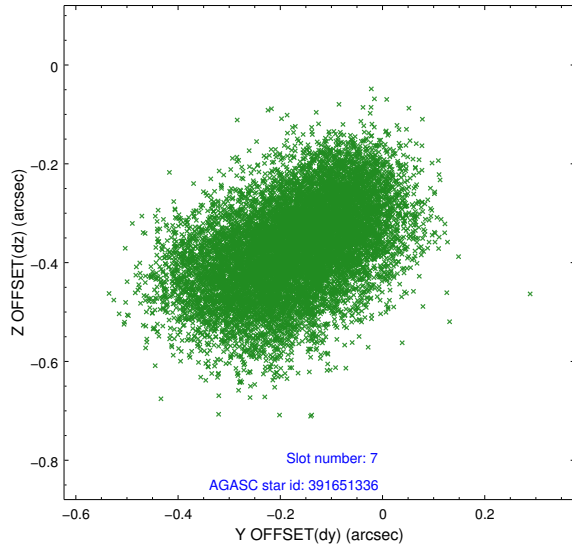
2.4.3 Slot 5



2.4.4 Slot 6

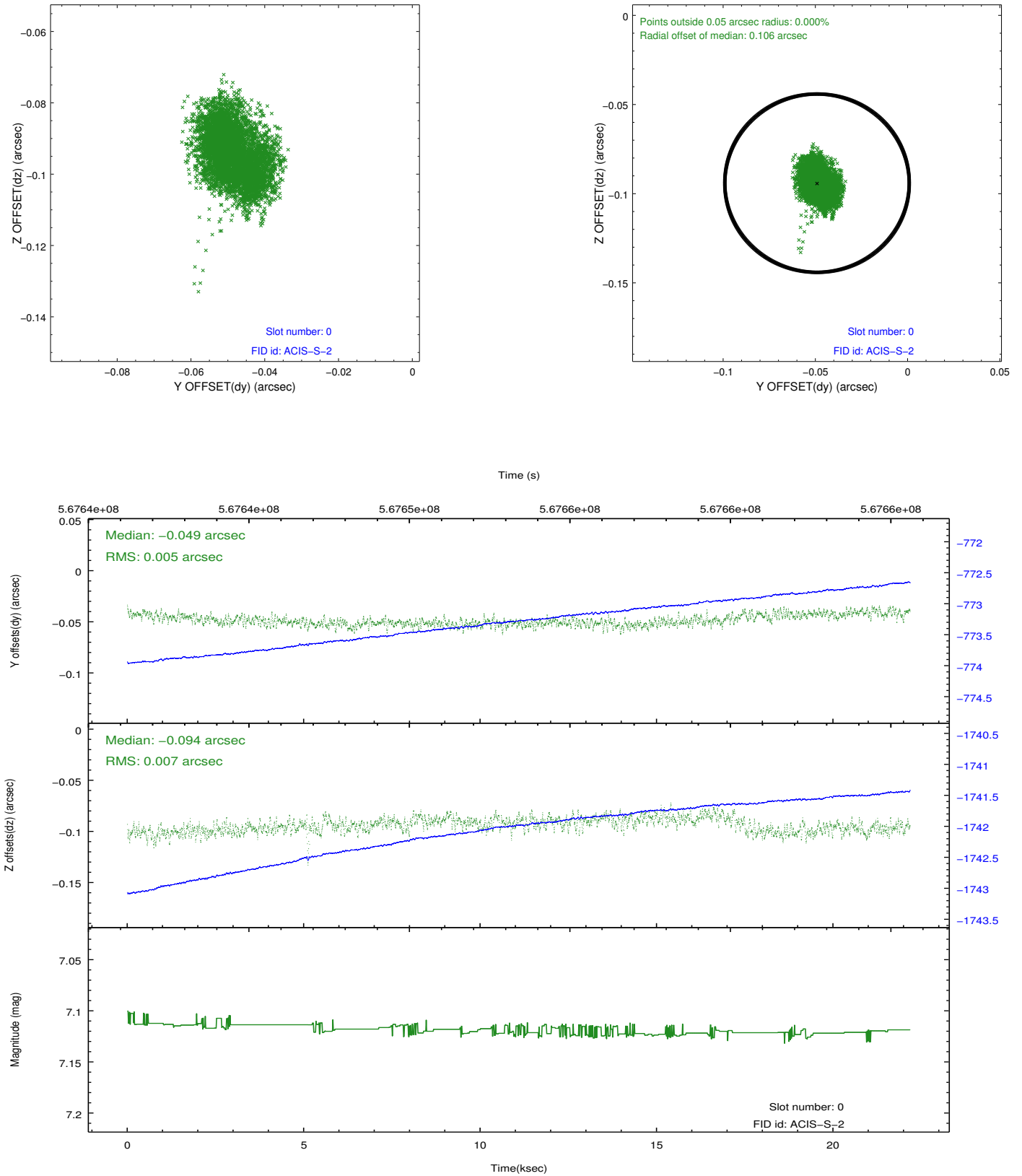


2.4.5 Slot 7

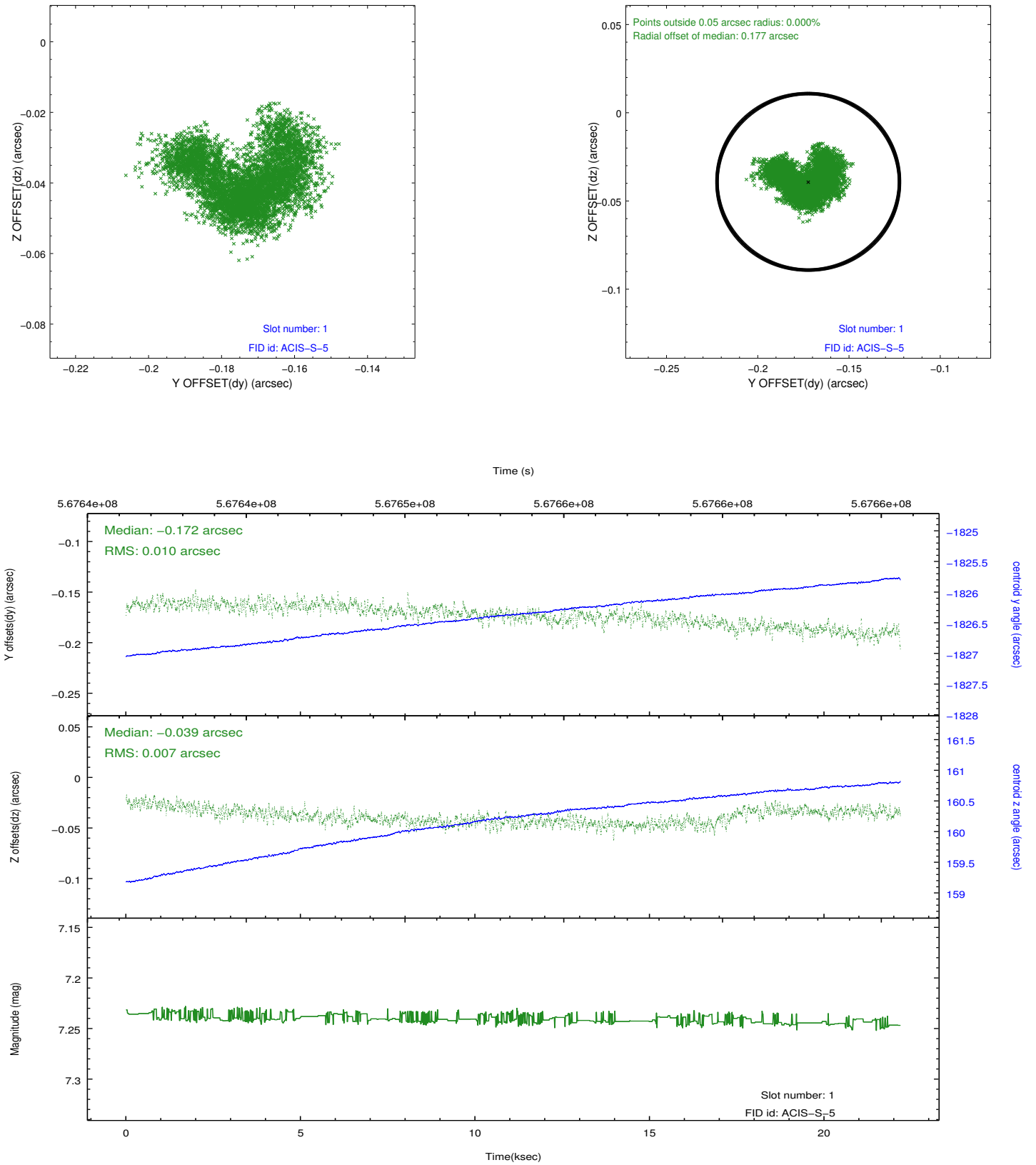


2.5 FID Slots

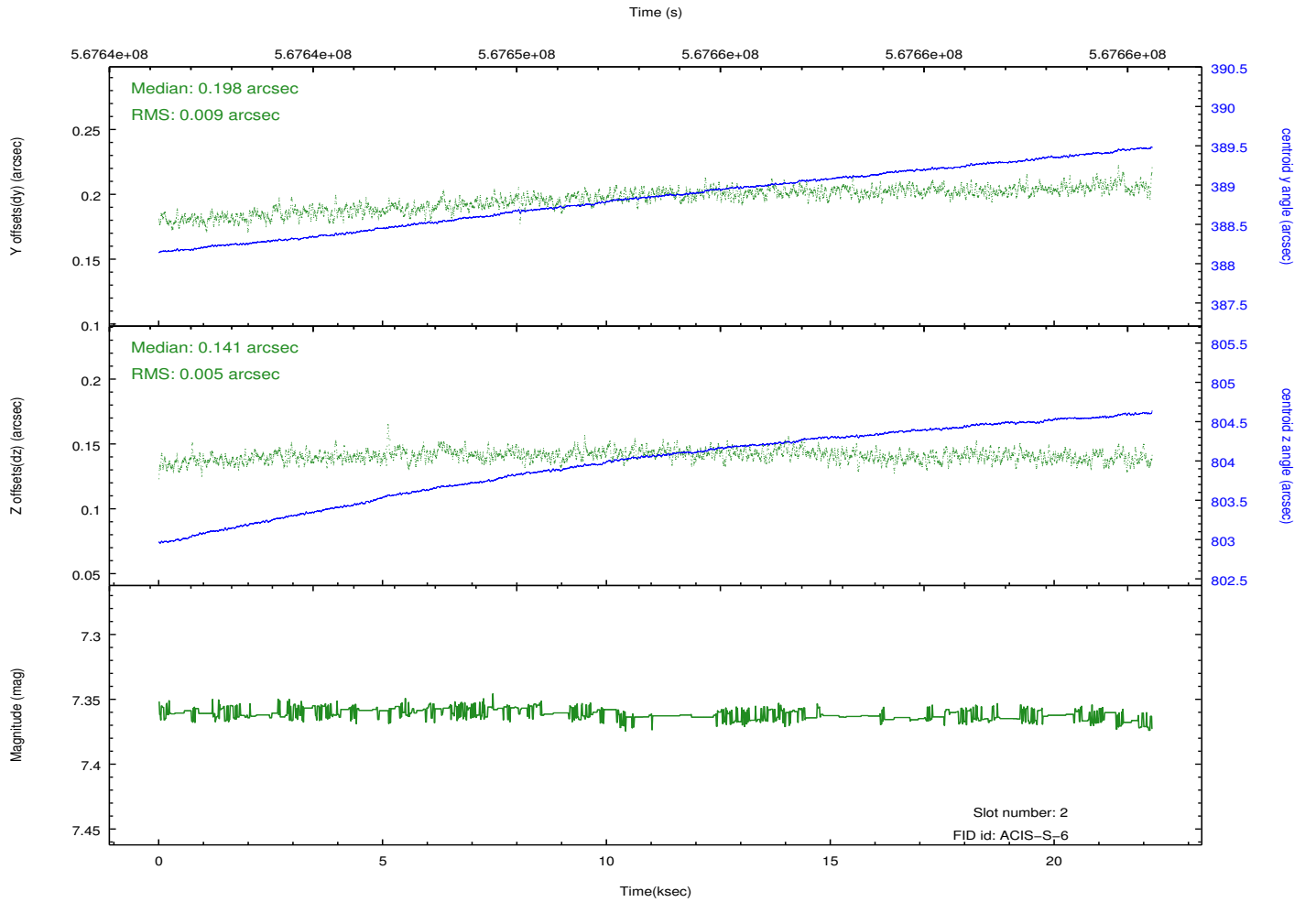
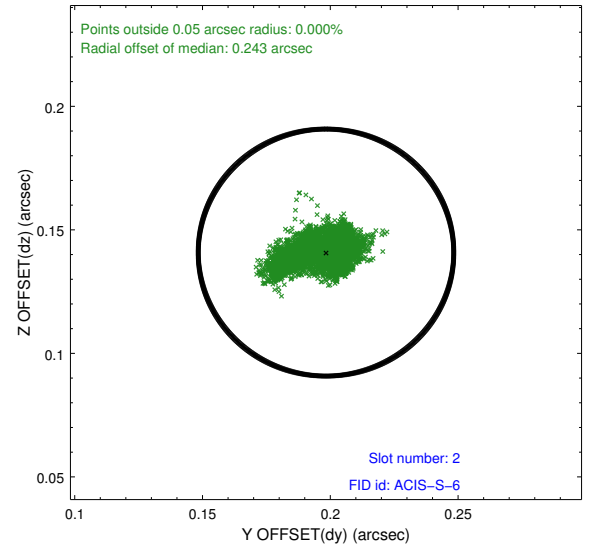
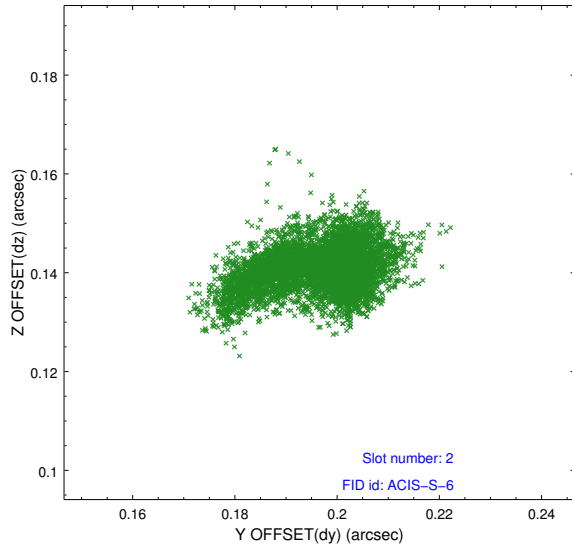
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.12.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.056500169754

A.2 Comments